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CIA-RDP86-00513R001548610001-5

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REEL
502

SHAPOVALENKO, A.G.

SHAPOVALIEJKO, A.G.

Transformers with magnetic flux shunting; a new type of magnetic
amplifier. Avtomatyka no.1:40-51 '56. (MLRA 9:10)
(Magnetic amplifiers)

S. A. PCVALENKO, A.G.

Controlling the speed of asynchronous motors by magnetic flux shunting.
Avtomatyka no. 3:64-77 '56. (MIRA 9:11)

1. Kiiiv's'kiy ordena Lenina politekhnichniy institut,
(Automatic control) (Electric motors, Induction)

SOV/112-59-2-2996

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 2, p 107 (USSR)

AUTHOR: Shapovalenko, A. G., Lauer, V. V., and Krasovskiy, Ye. P.

TITLE: Feasibility of a Vibrating-Contact-Type Speed Regulation for an Induction Motor Fed by a Single Generator of Commensurable Capacity
(O vozmozhnosti impul'snogo regulirovaniya skorosti asinkhronnogo dvigatelya, pitayushchegosya ot avtonomnogo generatora soizmerimoy meshchnosti)

PERIODICAL: Izv. Kiyevsk. politekhn. in-ta, 1957, Vol 26, pp 283-290

ABSTRACT: A vibrating-contact-type speed regulation for a wound-rotor induction motor fed by a synchronous generator of commensurable capacity is described. The system has fairly rigid mechanical characteristics within 10-20% of the rated speed range with a load torque within 100%. Resistors are connected in the rotor circuit of the motor. The rotor circuit is alternately closed and opened by a contactor. A 2-winding relay controls the contactor. One winding is supplied with a rectified voltage taken from the motor stator while the other

Card 1/2

SOV/112-59-2-2996

Feasibility of a Vibrating-Contact-Type Speed Regulation for an Induction Motor . . .

winding is fed from the rotor circuit. If the motor speed droops, the relay operates, closing the rotor circuit, and the motor speeds up. If the motor speed exceeds its average value, the relay armature drops out, opening the rotor circuit and the speed becomes lower; then the cycle is repeated. The open and closed contactor times can be determined from the linearized mechanical characteristic of the motor. The rigidity of the motor mechanical characteristic is computed with due allowance for the generator synchronous reactance. The experimental outfit consisted of a type SGS-4.5 generator (4.5 kw, 230 v, 11.3 amp) and an AK51/4 motor (2.8 kw, 1,370 rpm, 220 v, 11.5 amp) and an 11.8-kg-m² flywheel. Oscillograms of full rpm cycles with various loads are presented. Frequency of contactor operation varied from 0.18 to 0.8 cps. Bibliography: 5 items.

V.V.G.

Card 2/2

SHAPOVALENKO, A. G., Candidate of Tech Sci (disc) -- "Equipment with shunted magnetic current, and its use for regulating the speed of asynchronous motors". Kiev, 1958. 16 pp (Min Higher Educ Ukr SSR, Kiev Order of Lenin Polytech Inst, Chair of Electrification of Industrial Enterprises), 100 copies (KL, № 20, 1959, 113)

ERASOVSKIY, Ye.P., kand. tekhn. nauk; LAUER, V.V., inzh.; SHAPOVALENKO,
A.G.

Alternating-current time relay using a magnetic amplifier. Izv. wys.
ucheb. zav.; energ. no. 1:59-64 Ja '59. (MIRA 11:7)

i. Kiyevskiy ordena Lenina politekhnicheskiy institut.
(Electric relays)
(Magnetic amplifiers)

KRASOVSKIY, Ya.P. [Krasovs'kiy, Z.P.]; LAUER, V.V; SHAPOVALENKO, A.G.
[Shapovalenko, O.H.]

Using pulse control for obtaining low speed in electric drives with
asynchronous motors [with summaries in Russian and English]. Avtomatyka,
no.1;75-84 '58. (MIRA 11:4)

1. Kievs'kiy ordena Lenina politekhnichniy institut.
(Pulse techniques (Electronics))
(Electric motors, Induction)

8(2)

SCV/107-52-12-40/55

AUTHORS: Krasovskiy, Ye., Lauer, V., Shapovalenko, A.

TITLE: Voltage Indicators for Autotransformers
(Indikatory napryazheniya diya avtotrans-
formatov)

PERIODICAL: Radio, 1958, Nr 12, p 43 (USSR)

ABSTRACT:
The authors describe two simple voltage indicator circuits for autotransformers for controlling the voltage supply of television sets and radios. The first one (Figure 1a) contains two filament lamps switched in to the input of the transformer, one (L_1) directly and the other (L_2) through the resistance R. This indicator works on the principle of the considerable dependance of the filament lamp luminous flux on the current flowing through it. Experiments have shown that this indicator can regulate a voltage with an accuracy of +3 to -5%. In

Card 1/2

SOV/107-58-12-40/55

Voltage Indicators for Autotransformers

the second indicator (Figure 16) a choke DR (with a steel core without an air gap), a capacitor C and a filament tube L, connected to part of the autotransformer winding, are used. At a nominal voltage, automatic oscillations are present in the indicator, which make the lamp flicker; if the voltage is higher than the nominal it burns without flickering and if it is lower than nominal it does not light up at all. The indicator has an accuracy of plus or minus 3%. There are 2 circuit diagrams.

Card 2/2

VASIL'YEV, Nikolay Nikolayevich; DROBYAZKO, Soverin Fedorovich;
SHEVCHUK, S.N., dotsent, ratsenzent; SHAPOVALENKOG, A.G.,
inzh., red.;

[Practical designs of electric drives for machinery]
Prakticheskie raschety elektroprivedov proizvodstvennykh
mekhanizmov. Kiev, Gos.nauchno-tekhn.izd-vo mashinostroit.
lit-ry, 1959. 150 p. (MIR 13:1)
(Machins tools--Electric driving)

SHAPAVACER

Vseystoyushche ob'yedineniye sovetskikh i stranicheskikh proizvodstvennykh

professorov v maslenitsynyi i avtomatizovannom elektroprivode v promyshlennosti. M. Moscow, 1959

Elektronnaya i avtomaticheskaya promyslovnost' uchabno-tekhnicheskikh posobii. M. Moscow, 1959

(Electric Drive and Automation in Industrial Systems) Transactions of the Conference Moscow, Gospromgizdat, 1960. 470 p. 11,000 copies printed.

General Ed.: I.I. Petrov, A.I. Sirotin, and M.G. Chil'din; Eds.: I.I. Sol, and

E.P. Shilov; Tech. Eds.: K.P. Voronin, and G.M. Lashkov.

PURPOSE. The collection of reports is intended for the scientific and technical personnel of scientific research institutes, plants, and schools of higher education.

CONTENTS. The book is a collection of reports submitted by scientific workers at plants, scientific institutes and schools of higher education at the third All-Union Conference on the Automation of Industrial Processes in Machine Building and Automated Electric Drives in Industry, held in Moscow on May 12-16, 1959. The Conference was called by the Academy of Sciences USSR, the Central Planning Commission USSR, the GOKhSSR, "the Comittee on Automation and Machine Building," the All-Union Scientific and Technical Committee on Automation and Machine Building, and the National Committee of the USSR (Soviet Socialist Republics) on Technical Committees on Automatic Control, and prepared by the Research-Development Committee on Automatic Control of the All-Union Scientific and Technical Committee on Automatic Control, the All-Union Scientific and Technical Committee on Machine Building, the All-Union Scientific and Technical Committee on Telecommunications, and the Institute for the Study of Technical Problems of Machine Building of the Institute of Science and Society of the Academy of Sciences USSR.

It was the purpose of the Editorial Board to arrange the reports in a way which would ensure a relatively systematic presentation of theoretical and actual problems relating to electric drives and automatic controls or industrial machines used in various branches of industry. Basic problems of automated electric drives, reliability and means of automation. Considerable attention is paid to nonlinear control systems, including systems with semiconductor devices and magnetic amplifiers, and to computers intended both for the analysis and the synthesis of linear and nonlinear automatic regulation and control systems. The papers already published in journals or official publications have been considerably abridged; those which have appeared in volume V of II, IV, V, VI, VII, and VIII sections. References appearing in the papers of the present volume are not mentioned.

PART II. GENERAL PROBLEMS CONCERNING THE USE OF ELECTRIC DRIVES AND AUTOMATION IN CONTROL

Petrov, I.I., Candidate of Technical Sciences. Dynamic Properties of Control Systems for DC Drives With Magnetic Amplifiers	145
Savel'ev, M.P., Engineer, and O.Y. Shishchenko, Candidate of Technical Sciences. Corrections With Phase Measurement of the Numerical Induction Motor	148
Izmailov, T.P., Doctor, Candidate of Technical Sciences, and V.V. Lashkov, and A.G. Slobodchikov, Engineers. Control of DC Generators Operating Under Variable Environmental Pressure Conditions	152
Zetlin, D.P., Candidate of Technical Sciences. Automatic Excitation Regulation of Synchronous Motors Operating Under Variable Load Condition	153
Perminov, S.L., Candidate of Technical Sciences. Static Error of Electrical Machine Regulation With a Constant Control Signal	155
Turlebaev, D.B., Engineer. Circuit of an automatic Control System With the Use of a Differential Electromagnetic AC Relay	158
Berger, B.B., Engineer. Function Generator in Electric Drive Circuits	159
Ostrik, Ya.I., Engineer. Investigation of Electric Drive Systems With Continuous Positive Voltage Feedback	162
Kolmukov, O.M., Engineer. Improvement the Real Gain Factor of a Rectifier at Low Signals by Means of the Method of AC Superimposition	163
Bogolyubov, V.M., Candidate of Technical Sciences. Method of Thermal Parameter Application to the Heating of Ventilated Squirrel-Cage Induction Machines	164
Postnikov, V.D., Doctor, Candidate of Technical Sciences. Electromechanical Spindle Operating Conditions	165
Serezhko, I.A., Candidate of Technical Sciences. Method of Thermal Processes Applied to the Heating of Ventilated Squirrel-Cage Induction Machines	166
Postnikov, V.D., Doctor, Candidate of Technical Sciences. Thermal Processes in Electric Motors	167

LUK'YANOV, Vladlen Panteleymonovich; SHAPOVALENKO, A.G., kand.tekhn.nauk,
retsenzent; PELEVIN, N.N., inzh., red.; GORNOSTAYPOL'SKAYA, M.S.,
tekhn. red.

[Automatic control of production processes] Avtomaticheskoe
upravlenie proizvodstvennymi protsessami. Moskva, Mashgiz,
1963. 99 p. (MIRA 16:6)
(Automatic control)

KRASOVSKIY, Yevgeniy Petrovich, kand. tekhn. nauk; SHAROVALENKO,
Aleksandr Grigor'yevich, kand. tekhn. nauk; KOSTENKO,
Yu.V., retsenzent; POLYANSKIY, N.A., inzh., red.

[Automatic control of asynchronous motors] Avtomaticheskoe
upravlenie assinkhronnymi dvigateliami. Kiev, "Tekhnika,"
1964. 170 p. (MIRA 17:7)

SHAROVSKY, A.I.

Responses of single neurons of the spinal cord to rhythmic stimulation. Nerv. sist. no. 4:127-130 '63 (MIRA 188)

1. pervyy leningradskiy meditsinskiy institut.

SHAPOVALOV, A.I.

Nature of generator potentials. Trudy MOIP. Otd. biol. 9:191-201
'64. (MIRA 18:1)

1. 1-y Meditsinskiy institut imeni I.P.Pavlova, Leningrad.

СИСЕЛЕВ, В.В.

KISELEV, V.V., inzhener; SHAPOVALENKO, A.M., inzhener.

Prospective development and ways of improving compressor brake equipment for locomotives. Trudy TSNII MPS no.127:132-172 '57.

(Railroads--Brakes)

(MLRA 10:8)

SHAPOVALENKO, A.M., mladshiy nauchnyy sotrudnik; DMITRIYEV, A.V.; OZOLIN,
A.K., fizh.

Diesel compressors used in diesel locomotives. Elek. i tepl. tsiaga
2 no.1:16-17 Ja '58. (MIRA 11:3)

1.TSentral'nyy nauchno-issledovatel'skiy institut Ministerstva
putey soobshcheniya (for Shapovalenko). 2.Glavnyy konstruktor
Pervomayskogo tormoznogo zavoda (Dmitriyev).
(Diesel locomotives)

SHAPOVALENKO, A.M., inzh.

Hydrostatic drive for diesel locomotive auxiliary units. Elek.
i tepl.tiaga 2 no.12:15-17 D '58. (MIRA 12:1)
(Diesel locomotives)

SHAFOVALENKO, A.M., inzh.

Analyzing the performance of diesel locomotive compressors.
Vest. TSNII MPS [17] no.7:40-44 N '58. (MIRE 11:12)

1. Pervomayskiy tormoznoy zavod.
(Diesel locomotives) (Compressors)

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CIA-RDP86-00513R001548610001-5

SHAPOVALENKO, A.M., inzh.; YAKIMSKIY, V.V., kand. tekhn. nauk

Analysis of some new systems of compressor units to be used
in locomotives. Izdly ISMII MPS no.163:214-238 '58.
(MIRA 12:2)
(Railways--Brakes) (air compressors)

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CIA-RDP86-00513R001548610001-5"

SHAPOVKHAIKO, A.M., inzh.; YAMINSKIY, V.V., kand.tekhn.nauk

General system for calculating the operating conditions and
for determining the feed coefficient of rotary compressors.
Trudy TSNIIT MPS no.143:231-242 '58. (MIRA 12:2)
(Railroads--Brakes) (Air compressors)

SHAPOVAL MIKO, K.M., inzh.

Investigating the compression process in rotary compressor cylinders when the amount of working fluid varies. Trudy TSMII MPS no.163:258-287 '58. (MIRA 12:2)
(Railroads-Brakes) (Air compressors)

SHAPOVALENKO, A.M., inzh.

Methods and characteristics of determining the economic efficiency
of using new compressor types in various transportation traction
units. Izv.vys.ucheb.ziv.; mashinostr. no.6:167-182 '60.
(MIRA 13:7)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche imeni Baumana.
(Compressors)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548610001-5

SHAPovalenko, A.M., Inzh.

Two-shaft sectional-block diesel compressors. V. L. K. M. S. R.
no. 11-51-57 31 'tr. (MERA 15-1)
(Compressors) (Diesel locomotives)

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100% DATA.
100% (8:3)

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CIA-RDP86-00513R001548610001-5"

L 42921-66 SWP(3)/SWP(f)/SHP(f)/SHP(f) ACC NR: AP6017166

SOURCE CODE: UR/CO28/65/000/012/0039/0040

AUTHOR: Shapovalenko, A. N. (Candidate of technical sciences)

ORG: None

TITLE: Application of unification and specialization to production of compressors

SOURCE: Standartizatsiya, no. 12, 1965, 39-40

TOPIC TAGS: machine industry, compressor design / KSE-5M compressor, -KSE-6M compressor,
ZIF-VKS-6 compressor, VU6-5 compressor, KT-6 compressor, EK-16-1 compressor, KSE-3
compressor, VU3-8 compressor, PK-3.5 compressor, PK-35 compressor

ABSTRACT: The author presents his general considerations on the application of production uniformity to the manufacture of various compressors. There were about 250,000 compressors of a total capacity of 13,000,000 kw in use in 1964. The compressors are manufactured in a multitude of types and models. The analysis of compressor characteristics shows that about 50 different types are manufactured in the range of 0.5 to 10 cu m/min capacity at 0.7 to 1 kw/sq m. For example, compressors of 5 to 6 cu m/min capacity are manufactured in five different types (KSE-5M, KSE-6M, ZIF-VKS-6, VU6/8 and KT-6) in Melitopol', Kurgan, Leningrad, Yerevan and Poltava. In addition, five different models of 2.7 to 3.5 cu m/min capacity (EK-16/1, KSE-3, VU3/8, PK-3.5 and PK-35) are also manufactured. They are of different designs and dimensions. It is suggested that two of the best models be selected among these ten types and their production be concentrated at

Card 1/2

L 42921-66
ACC NR: AP6017166

2 or 3 plants. It is also suggested that all the plants producing compressors be unified in one production group. A new revision of old specifications for compressors (such as GOST 6791-53) is recommended. The use of obsolete crank gearing by the Poltavskiy and Pervomayskiy plants is criticized and the development of new advanced models is recommended.

SUB CODE: 13/ SUBM DATE: None

Card 2/2 MLP

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Shaded by AMT and, in red, AMT

Some comments on the ADST 1-65 draft standard.

U.S. Standardization Board 24 Nov 1965 S 165.

(MIA 12:12)

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SHAPOVALENKO, S. I.; SVISTUNOVA, N. N.; OBYEDOV, E. V.

Anticorrosion technique in the production of synthetic
odorous substances. Masl.-zhir.prom. 26 no.4:37-41
Ap '60. (MIRA 13:6)

1. Kaluzhskiy kombinat sinteticheskikh dushistykh veshchestv.
(Kaluga--Odorous substances)
(Corrosion and anticorrosives)

ANALYST: Mr., INSTRUMENT SHAPOV/LEVKOV, R. DRIVENOW.

thermal all-metal container, Mol. selen. 36 no. b:18-22 C-D 153.
(MIRA 7:3)
(Food--Transportation) (Gold storage)

DIVAKOV, A., Inzhener vedomstvennykh nauch; KONACHEVSKIY, A., Inzhener;
PYKHALOV, S., inzhener; SHAPOVALENKO, M., inzhener.

Refrigerated car with automatic temperature regulation. Mias, ind.
SSSR 25 no.6:39-41 '54. (MIRA 8:1)

L. Vsesoyuznyy nauchno-issledovatel'skiy institut myasnoy pro-
myshlennosti (for Divakov, Konachevskiy and Pykhalov).
(Refrigerator cars)

"APPROVED FOR RELEASE: 08/23/2000

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"Information on Mechanical Engineering and Building Studies in the USSR."

Report submitted for the 16th International Congress, Copenhagen,
October 1957.

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CIA-RDP86-00513R001548610001-5"

~~CHAPOVALENKO, Martina Mikhaylovna; DOBROVA, Yu.S., red.; DOBROVA,
Yu.S., tekhn. red.~~

[Isothermal cars and coaches with machine refrigeration]
Izotermicheskie vagonny i sestki s mashinnym okhlazhdieniem.
Moskva, Gos. transp. zhel.-dor. izd-vo, 1959. 166 p. (MIR 12:8)
(Refrigerator cars)

MOSCOW, U.S.S.R., March 20, 1960, 08A: MIRB 0, M.R., 1960.

Refrigerator cars will be the basic type of refrigerated transportation
of the near future. Each day transp. 42 no. 10:16-20 0 '60.

(MIRB 13:10)

(Refrigerator cars)

СССР. Установка вагонов с морозильными камерами.

Задание № 300. Установка вагонов с морозильными камерами.
(M136 - Маршрут № 300)

3. Установка вагонов с морозильными камерами.
Установка вагонов с морозильными камерами.

(Refrigerator cars)

AKARENKO, P.M., Inzh.; CHIRYAVAINOVA, N.N., Inzh.; MARTYNOV, M.S., Inzh.,
retsezent; MALASHOV, N.N., Inzh., rozmest; PETROVA, V.L.,
Inzh., red.; RODNOVA, Ye.N., telkon.red.

[Transportation of perishable goods and efficiency of various types
of isothermal railroad cars] Teplyy perevozok skoroprotiaschikh sred
gruzov i effektivnost' razlichnykh tipov isotermicheskikh
vagonov. Moskva, Vses. soedin. tekhn.-poligr. ob"edinenie M-vi
putei soobshcheniya, 1962. 32 p. (Moscow. Vsesoiuznyi
nauchno-issledovatel'skiy institut zheleznodorozhnog. transporta.
Trudy, no.234). (MFA 15:8)

(Refrigerator cars)

inzh . A.D. inzh . LIVIERS, A.P., inzh . LEVCHIN, B.S., inzh.;
LUDOVIC, N.F., inzh.; MUSATOV, V.G., inzh.; KHODYAKOVSKIY,
V.V., inzh.; SHATOKHINA, M.N., inzh.; SHATOKAYA, E.P.,
inzh.; VITALIAKOV, S.F., head tekhn naek, retsenzent;
SHISHUKOV, Ye.S., inzh., red.; KHITROVA, N.A., tekhn. red.

Manual on the transportation of perishable goods] Spravochnik po perevozke skoroprotisicheskix gruzov. [By] A.D.
Khokhurov i dr. Moskva, Transzheldorindat, 1963. 323 p.
(MIRA 16:10)

Refrigerator Freight) (Refrigerator cars)

(A)

SOURCE CODE: UR/0066/66/000/011/000/001

AUTHORS: Shapovalenko, M. M.; Chokhareva, N. P.

ORG: All-Union Scientific Research Institute of Railroad Transportation
(Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznyodorozhnogo transporta)

TYPE: Experimental shipments of cooled meat in the form of grade cuts

SOURCE: Kholodil'naya tekhnika, no. 11, 1986, 10-11

TOPIC TAGS: food preservation, low temperature transport, railway transportation

ABSTRACT: Experiments in shipping cooled meat in the form of well packed grade cuts rather than suspended on hooks in refrigerated cars are described. The experiments were undertaken by Vinnitsa and Kiev meat combines in transporting their product to Moscow, in the hope of reducing the weight of metallic equipment and making more efficient use of train space. The cut meat (at the temperature of 0 to 4°C) was packed in polyethylene-lined wooden boxes in single layers which were also covered with polyethylene film. In another test the cuts were wrapped individually in cellophane. On the average, 3 kg of cellophane or 7.5 kg of polyethylene were required per 1 ton of grade cuts. Organoleptic evaluation of the meat arriving at Moscow has shown it to be in satisfactory condition in all aspects. The loading capacity of the refrigerated cars was doubled by using this procedure. The cost of

Card 1/2

UDC: 637.513.82:656.225

302-58-1-8/12

AUTHORS: Mironovskyy, E.P., Lauer, V.V. and Shapovalenir, C.G.

TITLE: Use of Pulse Control to Produce Low Speeds in Induction Motors Driven (Zastosuvannya impulsnoho upravlinnya z myzdu i derzhannya nizkykh shviyokostey v elektr-mopryivedakh z vysokihosnyy dvigunamy)

PERIODICAL: Automatika (Kiev), 1968, Nr 1, pp 75 - 84 (Ukrainian SSR)

ABSTRACT: The advantages of this system when the time spent at low speeds is short (cheapness, simplicity) are pointed out and two circuits using polarised relays on three-phase circuits are given. The time for which it is permissible to operate the motor in this way increases with the moment of inertia of the system (referred to the motor shaft). The speed can be varied from 0.04 to 0.20 of the synchronous speed, the speed-load characteristic being very flat. A motor with a plisse-fil sator is of course required. In this case, derivative (velocity) feedback can be effected by using the back-e.m.f. of the rotor no tachometer being needed. The motor can be used to accelerate and decelerate by closing and opening the rotor circuit. A 37-kW 1400 r.p.m. motor was used to test the circuits; at a mean speed of 30 r.p.m., the fluctuations were ± 30 r.p.m. with a referred moment of inertia of $400 - 800$ kg.m².

Card 1/2

TOP SECRET//S/12
Use of Pulse Control to Improve Low Speed in Direction Motor
Driven

There are 6 figures and 2 Soviet references.

ASSOCIATION: Kyivskyi Tekhnicheskii Politekhnicheskiy Institut
(Kyiv Soviet of Technological Polytechnic Institute)

SUBMITTED: February 25, 1957

Card 2/2

DEKHTYARENKO, Pavel Ivanovich; SHAPOVALENKO, O.G. [Shapovalenko, O.H.],
kand. tekhn. nauk, otv. red.; REMENNIK, T.Z., red. izd-va;
AKHLINE, N.P., tekhn. red.

[Experimental determination of the frequency characteristics of
automatic control systems] Eksperimental'ne vyznachennia chastot-
nykh kharakterystyk system avtomatychnoho reguluvaniia. Kyiv,
Vyd-vo Akad.nauk URSR, 1961. 143 p. (MIRA 15:2)
(Automatic control)

DEKHTYARENKO, Pavel Ivanovich; SHAPOVALENKO, O.G. [Shapovalenko, O.H.],
kand. tekhn. nauk, oty. red.; REMENNICK, T.K., red. izd-va;
RAKHLINA, N.P., tekhn. red.

[Experimental determination of the frequency characteristics
of automatic control systems] Eksperimental'nye vyznachennia
chastotnykh kharakterystyk system avtomatychnoho reguliuvan-
nia. Kyiv, Vyd-vo Akad. nauk URSR, 1961. 143 p.
(MIRA 16:4)

(Automatic control)

LADISK, Vasily Mikhaylovich; LAVRIN, Nikolai Mikhaylovich;
SOKOLOVSKY, Vasilij; SOKOLOVSKY, Vasilij;
STANOVAY, Vasilij Vasiljevich.

[We are giving full cooperation] in conducting the
energy-saving review. Levity, Potashnik, etc. (4)
(CIA 18:3)

CL

Processes and Properties Index
of Educational Materials and Devices

Shapovalenko, S. G., and Glorozov, V. A.: Metodika
Prepodavanija Khimii v Semiletnej Shkole. Moscow
Leningrad: Akad. Pedagogicheskikh Nauk R.S.F.S.R.
1938. 295 pp. 12 r.

ATTACHMENT - EDUCATIONAL LITERATURE CLASSIFICATION

EDUCATIONAL LITERATURE CLASSIFICATION

RECORDED BY: [redacted]

Bogolyubov, N. G. (retired) in 1951 - received his doctorate at the Institute of Mathematics. Travel at radio station. College (Moscow, present) 1954. Prof. (Scientific activity in the scientific and preparatory students from practical work. Researcher (radio station))

See Monthly List of Scientific Publications, L.G. Vol. 3 for 1954. (M. Inst.)

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RECORDED BY THE FBI AND THE WASHINGTON D.C. POLICE DEPARTMENT

ON AUGUST 23, 1986, IN WASHINGTON, D.C., AND SEATTLE, WASHINGTON.

JOHN T. LEWIS, JR., Executive Vice President, Chairman, Board of Directors,

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CIA-RDP86-00513R001548610001-5"

Yuri Vasil'ev, Ph.D.

Primenenie khimii v shkole v
svete na fach. politekhnicheskogo obucheniya. Materialy
v pouchenoj sotsialnoj (teaching chemistry in school
in the light of the objectives of practical application;
material to help the teacher). Moscow, Akad. Nauk RSFSR,
1954, 17 p. (Akad. period. sov. SSSR. Nauchno-
tekhnicheskaya).

AB: Monthly List of Russian Acquisitions, Vol. 7, No. 5, August 1954.

SHAPOVALENKO, S.G.; SAFONOVА, I.N.; POJNYAKOVA, N.I., redaktor; MIRONTSEVA,
N.I., tekhnicheskij redaktor

[Current control of students' progress in chemistry; a method outline]
Tekushchaja proverka napravlenosti uchashchikhsia po khimii; metodiches-
koe pisan'e. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva pro-
svetshchenija RSFSR, 1954. 33 p.
(MLRn 8:3)

I. Russia (1917- R.S.F.S.R.) Glavnaya upravleniya shkol. 2.
Chlen-korrespondent Akademii pedagogicheskikh nauk RSFSR (for Shapo-
valenku). Starschiy nauchnyy sotrudnik laboratorii metodiki khimii
Instituta metodov obucheniya Akademii pedagogicheskikh nauk RSFSR (for
Safonova)

(Chemistry--Study and teaching)

SHATOVILENKO, S. G.

SHAPOVALENKO, S.G.; EPSHTEYN, D.S.; TSVETKOV, L.A.; GLORIOZOV, P.A.;
KLESHCHEVA, E.P., redaktor; MARKHOVA, N.N., tekhnicheskij redaktor.

[Problems of training in practical applications in the teaching
of chemistry] Voprosy politekhnicheskogo obucheniia v prepovedavaniii
khimii, Moskva, Gos. uchebno-pedagog. izd-vs, 1954, 157 p. (MLRA 7:8)
(Chemistry - Study and teaching)

SHAPOVALENKO, S.G.; KHODAKOV, Yu.V.

New chemistry handbook for the 7th class. Khim.v shkole 9 no.6:
Izdat N-D '54.
(Chemistry)

KHODAKOV, Yuriy Vladimirovich; TSVETKOV, Leonid Aleksandrovich; SHAPOVALENKO, Sergey Grigor'yevich; EPSHTEYN, David Arkad'yevich; GRABETSKIY, A.A., redaktor; KOZLOVSKAYA, M.D., tekhnicheskiy redaktor.

[Chemistry; textbook for the class 10 of the secondary school]
Khimia; uchebnik dlia 10 klassa srednei shkoly. Pod red. S.G.Shapovalenko. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniya RSFSR, 1956. 167 p. (MIRA 9:6)
(Chemistry)

KHODAKOV, Yuryi Vladimirovich; TSVETKOV, Leonid Aleksandrovich; SHAPOVALENKO,
Sergey Grigor'yevich; EPSHTEYN, David Arkad'yevich; SAVEL'YEVA, R.N.,
red.; MAKHOVA, M.N., tekhn. red.

[Chemistry; a textbook for grades 8 - 10 of secondary schools] Khimiia;
uchebnik dlja VIII-X klassov srednei shkoly. Pod red. S.G.Shapovalenko.
Izd.4. Moskva, Gos. uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1958.
(MIRA 14:7)
421 p.

I. Chlen-korrespondent Akademii pedagogicheskikh nauk RSFSR (for
Shapovalenko)

(Chemistry)

GLORIOZOV, Pavel Aleksandrovich; DRIZOVSEKAYA, Tamara Mikhaylovna; TSVETKOV,
Leonid Aleksandrovich; SHAPOVALENKO, Sergey Grigor'yevich; BPSHTEYN,
David Arkad'yevich; PROFERANSOVA, N.V., red.; LAUT, V.G., tekhn.
red.

[Problems of technical education in the teaching of chemistry]
Voprosy politekhnicheskogo obuchenia v prepodavanii khimii. Pod.
red. S.G.Shapovalenko. Moskva, Izd-vo Akad. pedagog. nauk RSFSR,
1957. 425 p. (MIRA 11:5)

1. Chlen-korrespondent APN RSFSR (for Shapovalenko)
(Chemistry--Study and teaching)

SHAPOVALENKO, Sergey Grigor'yevich; RIVINS, Yu.B., red.; GARNEK, V.P.,
tekhn.red.

[Polytechnical training in Soviet schools today] Politekhnicheskoe
obuchenie v sovetskoi shkole na sovremenном etape. Moskva, Izd-vo
Akad.pedagog.nauk RSFSR, 1958. 174 p. (NIRA 11:3)

1. Chlen-korrespondent APN (for Shapovalenko)
(Technical education)

SHAPOVALENKO, Sergey Grigor'yevich; LAPITSKIY, A.V., doktor
khim. nauk, prof., retsenzent; SMIRNOV, A.D., kand.
khim. nauk, dots., retsenzent; SYROYEZHIN, I.T.,
retsenzent; BATULINA V.V., red.; MAKHOVA, N.N.,
tekhn. red.

[Methodology of teaching chemistry in eight-year and
secondary schools; general problems] Metodika obuchenii
khimii v vos'miletnei i srednei shkole; obshchie voprosy.
Posobie dlia uchitelei. Moskva, Uchpedgiz, 1963. 667 p.
(MIRA 17:3)

1. Chlen-korrespondent Akademii pedagogicheskikh nauk
RSFSR (for Shapovalenko). 2. Uchitel' khimii sredney shkoly
No.13 Kuybyshev'skoy oblasti (for Syroyezhkin).

SHAFOVMLIKO, S.G.

Programmed instruction in chemistry. Khim. i khimichesk. 18 ss. 18-27
S-0 '63. (MIRA 17:1)

1. Chlen-korrespondent Akademii pedagogicheskikh nauk RSFSR.

GRABINSKIY, A.A.; KOTLYAROVА, O.S.; SHAPOVALENKO, S.O.

Content of an elective course on chemistry. Khim. i shkola 18 no.6:56-
AII NLD '63. (MIRA 17:1)

YEVGENY V. BABASKIN, YU.S., SHILTYAEV, A.P., SHAPOVALENKO, V.G.,
SHIROVSKII, V.P.

Heating Kh18N9TL steel in an induction furnace by the remelting process
with the use of oxygen. Lit. proizv. no. 841-42 Ag 1/4. (NDK 18:10)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548610001-5

SHAPOV ALLENKO, V.G.; BABASKIN, Yu.Z.

Method pouring of steel without stoppers. Lit. pravizv. no. 4:43 Ap '63.
(MIRA 16:4)
(Foundries---Equipment and supplies)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548610001-5"

ACCESSION NR: AP4044249

S/0128/64/000/008/0041/0042

AUTHOR: Fil'sen, N. V., Babuskin, Yu. Z., Zhulyayev, A. F., Shapovalenko, V. G., Turovskiy, V. P.

TITLE: Manufacture of Kh18N9TL steel in an induction furnace by remelting with oxygen

SOURCE: Liteynoye proizvodstvo, no. 8, 1964, 41-42

TOPIC TAGS: steel manufacture, induction furnace, Kh18N9TL steel, steel melting, oxygen remelting, decarbonization, blast furnace, tuyere blowing

ABSTRACT: The technique of blowing oxygen into the metal, the oxygen pressure, and the composition and temperature of the metal as factors in decarbonization and chromium burn-up were investigated in an attempt to develop an optimum technology for manufacturing low-titanium, high-quality Kh18N9TL stainless steel (with a carbon content not above 0.06%) from the plant's steel wastes and rolled scrap by remelting in a 250-kg oxygen-blast induction furnace. By varying the proportion of stainless steel wastes and high-carbon scrap in the material from 6 to 100% and the pre-blowing temperature from 1680 to 1660°C, with a post-blowing temperature of 1800°C, an efficient technique was developed in which the pre-blowing charge contains 47% of carbon steel scrap, to which 27% of

Card: 1/2

ACCESSION NR: AP4044249

stainless steel wastes (with respect to the melt weight) is added after blowing. Both of the two tested blast procedures - tuyere blowing and blowing through a submerged pipe - were found to be effective, the latter being more economical. Remelting with oxygen gives a better product than remelting without oxygen. Orig. art. has: 1 table.

ASSOCIATION: Donetskiy zavod sel'skokhozyayotvonnogo mashinostroyeniya (Donetsk Agricultural Machinery Plant)

SUBMITTED: 00

ENCL: 00

SUB CODE: MM

NO REF Sov: 004

OTHER: 000

Card 2/2

SHAPOVALEIKO, V.V., agronom

Efficient measure for increasing field crop yields. Mekh. sili', hosp.
N 8:23-24 Ag '60, (MIRA 13:9)

1. Volkher im Kalinina, Kremenskogo rayona, L'vovskoy oblasti.
(Harrows)

KOVRIGIN, O.D.; KARTASHOV, V.M.; LATYSHEV, G.D.; LONDARENKO, G.A.;
NOVGORODOV, A.F.; SYCHIKOV, G.I.; SHAPOVALENKO, V.V.

Study of the internal conversion electron spectrum of Eu¹⁴⁷.
Izv. AN SSSR. Ser. fiz. 27 no. 2:263-266 F '63. (MIRA 16:2)
(Internal conversion (Nuclear physics))
(Europium isotopes--Spectra)

SHALUPENKO, K.V., dotsent; GRISHCHENKO, V.V.; SHAPOVALENKO, Ye.A.;
FILIPSKAYA, S.S.

Clinical course of diseases caused by Coxsackie and ECHO viruses.
Sov.med. 25 no.1:49-53 Ja '61. (MIRA 14:3)

I. Iz kafedry detskikh bolezney (zav. K.V.Shalupenko) Krymskogo
meditsinskogo instituta.
(COXSACKIE VIRUSES) (VIRUS DISEASES)

3/09/61/000/028/031/074
3154/A126

NAME: Schapovchenko, Ye. B.

TYPE: A continuous casting method for shaped metal parts

PERIODICAL: Suletien' izobreteniy, no. 21, 1961, 43

TECH. Class 31c, 1504. No. 142386 (724428/22 of March 29, 1961). 1. A continuous casting method for shaped metal parts, distinguished by the fact that, in order to obtain high-quality shaped castings, the filling of the molds is carried out with crystallization directed from bottom to top and natural metallostamps pressure by means of an inclined roller table with mobile guide rollers. 2. A method as stated in 1., distinguished by the fact that the casting molds, enclosed in casting assembly boxes, are continuously collected into an inclined stack having a common feeder sprue which is open at the top and serves simultaneously as a riser, and then descend on the roller table.

Card 1/1

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548610001-5

SHAPOTALOV, A.

"Protecting Plane Armies from Dust," Sov. Vozvosh. Flota, No. 5, 1979, Lit. vol.,
Aviation Correspondent Branch, Vol. IV -.

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548610001-5"

~~SHAPOVALOV, A.~~, polkovnik tekhnicheskoy sluzhby.

Conservation of piston engines. Vest. Vozd. Fl. 3rd no. 10:73-77
O '51. (MIRA 8:3)
(Airplanes--Engines)

TIKHOMIROV, A., elektromekhanik; SHAPOVALOV, A., elektroslesar'

Automatic disconnection of hoists. Mast. ugl. 7 no.3:22 Mr '58.
(MIRA 11:3)

(Mine hoisting) (Automatic control)

SHAPOVALOV, A., kand. sel'skokhoz. nauk

Controlling the poplar clearwing moth (*Aegeria apiformis*). Zashch.
rast. ot vred. i bol. 10 no.2:26 '65. (MIRA 18:4)

1. Nauchno-issledovatel'skiy institut sel'skogo khozyaystva
TSentral'no-chernozemnoy polosy imeni V.V.Dokuchayeva.

SHAPOVALOV, A.

Ruler for testing front wheel alignment. Avt. transp. 34 no.10:
32 O '56. (MLRA 9:12)

(Automobiles--Wheels)

SHAPOVALOV, A., inzhener.

The place of the mechanic in automotive transport organizations.
Avt.transp. 35 no.1:29 Ja '57. (MLBA 10:3)

1.Tuvinskiy avtotrest.
(Automobile mechanics)

SHAPOVALOV, A., inzh.

Apparatus for determining fuel consumption, Avt.transp. 39 no.2:49
F '61, (MIRA 14:3)
(Automobiles—Brakes)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548610001-5

SHIROVALOV, A., inzh.

Wrench for screwing dowels. Avt.transp. 39 nc.10:51 0 '61.
(MIRA 14:10)
(Wrenches)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548610001-5"

SHAPOVALOV, A., inzh.

Wrench for bolts with a circular head. Avt.transp, 40
no.5:34 My '62. (MIRA 15:5)
(Wrenches)

SHAPovalov, A., inzh.

Hoist for the assembly of structural elements. Sel'.stroi.
no.8:19 Ag '62. (MTRA 15:11)
(Hoisting machinery)

SHAPOVALOV, A., inzh.

Movable scaffold. Avt.transp. 4l no.1:22-23 Ja '63.
(MIRA 16:2)
(Motor vehicle—Maintenance and repair)

SHAPOVALOV, A., inzh.

Unit for straightening automobile bodies. Avt. transp. 41
no. 3:55 Mr '63. (MIRA 16:4)

(Automobiles—Maintenance and repair)

SHAPOVALOV, A., inzh.; KATYSHEV, A.; FIL'KIN, I.; ROVOVOY, D.;
VASILENKOV, N., slesar;

Exchange of experience. Avt. transp. 41 no.8:52-54 Ag '63.
(MIRA 16:11)
1. Khar'kovskiy avtotrest (for Shapovalov).

ZHELEZOVSKIY, V.; TIKHONOV, Yu.; SEMIK, A.; SHAPOVALOV, A., starshiy inzh.

Technical information. Okhr. truda i sots. strakh. 5 no.5:35,37-38
My '62. (MIRA 15:5)

1. Oblastnoy sovet Vsesoyuznogo obshchestva izobretateley i
ratsionalizatorov, g. Rostov-na-Donu (for Shapovalov).
(Technological innovations)

USSR / Forestry. Forest Cultures.

K

Abs Jour: Ref Zhur-Biol., No 7, 1958, 29597,

Author : Shapevalov, A. A.

Inst : The Scientific Research Institute for Agricul-
ture of the TsChP.

Title : Forest Cultivating Methods of Increasing the
Hardiness of Poplars in Protective Plantings.
(Lesokul'turnyye priyemy povysheniya ustoychi-
vosti topoley v zashchitnykh nasazhdeniyakh).

Orig Pub: Byul. nauchno-tekhn. inform. n.-i. in-ta s.kh.
TsChP, 1956, No 1, 24-25.

Abstract: No abstract.

Card 1/1

SHAPOVALOV, A.A.

Biology and ecology of the poplar moth (*Aegeria apiformis* Clerk.)
in shelterbelts [with English summary in insert]. Zool. zhur. 35
no.4:583-587 Ap '56. (MLRA 9:8)

1. Institut zemledeliya imeni V.V. Dokuchayeva,
(Moths)

USSR / General and Special Zoology. Insects. Harmful Insects and Mites. Fruit and Berry Crop Pests.

Abs Jour: Ref Zhur-Biol., No 1, 1959, 2321.

Author : Shapovalov, A. A.

Inst : Scientific-Research Agricultural Institute of the Central Chernozem Belt.

Title : Experimental Results of the Protection of Fruit Breeds from Stem Pests.

Orig Pub: Byul. nauchno-techn. inform. n.-i. in-ta s. kh. tsentr. chernozemn. polosy, 1957, No 3, 50-52.

Abstract: The principle cause of the large-scale withering of the cherry-tree in the Central Chernozem Belt is the infestation of the trees by the cherry tortricid and their subsequent population with agaric and fruit-tree bark beetles. (Scoly-

Card 1/2

USSR/General and Specialized Zoology - Insects.

Po

Abs Jour : Ref Zhur - Biol.. No 8, 1958, 35297

Author : Shapovalov, A.A.

Inst :

Title : The Big Poplar Algeridae Beetle - an Injurious Poplar Pest

Orig Pub : Lesn. Khvor. 1957, No 8, 46-49.

Abstract : No abstract.

Card 1/1

- 17 -

COUNTRY : USSR
CATEGORY : Farm Animals.
 : The Honeybee
ABS. JOUR. : RZhBiol., No. ., 1958, no. 25941

AUTHOR : Shapovalov, A. A.
INST. : Institute of Agriculture imeni V. V. *
TITLE : Nectariferous Plants at Afforestations, Parks
 and Gardens of the Central Chernozem Belt.

ORIG. PUB. : Pchelovedstvo, 1958, No 7, 34-37

ABSTRACT : Based upon the example set by the forest and park plantations of the Institute of Agriculture imeni V. V. Dokuchayev which is located in the Kamennaya Step' [Stone Steppe], a timetable of the nectariferous trees' and shrubs' blooming terms is presented which are determined by their location. Recommendations are made pertaining to the planting of trees and shrubs with the aim of improving the bees' feeding base; in particular it is advised

CARD#

1/2
*Dokuchayev

SHAPOVALOV, A.A.

Leaf roller Laspeyresia woebiana Schiff. as a cherry pest in
the Kamennaya Steppe [with summary in English]. Zool. zhur. 38
no.2:284-285 F '59.
(MIRA 12:3)

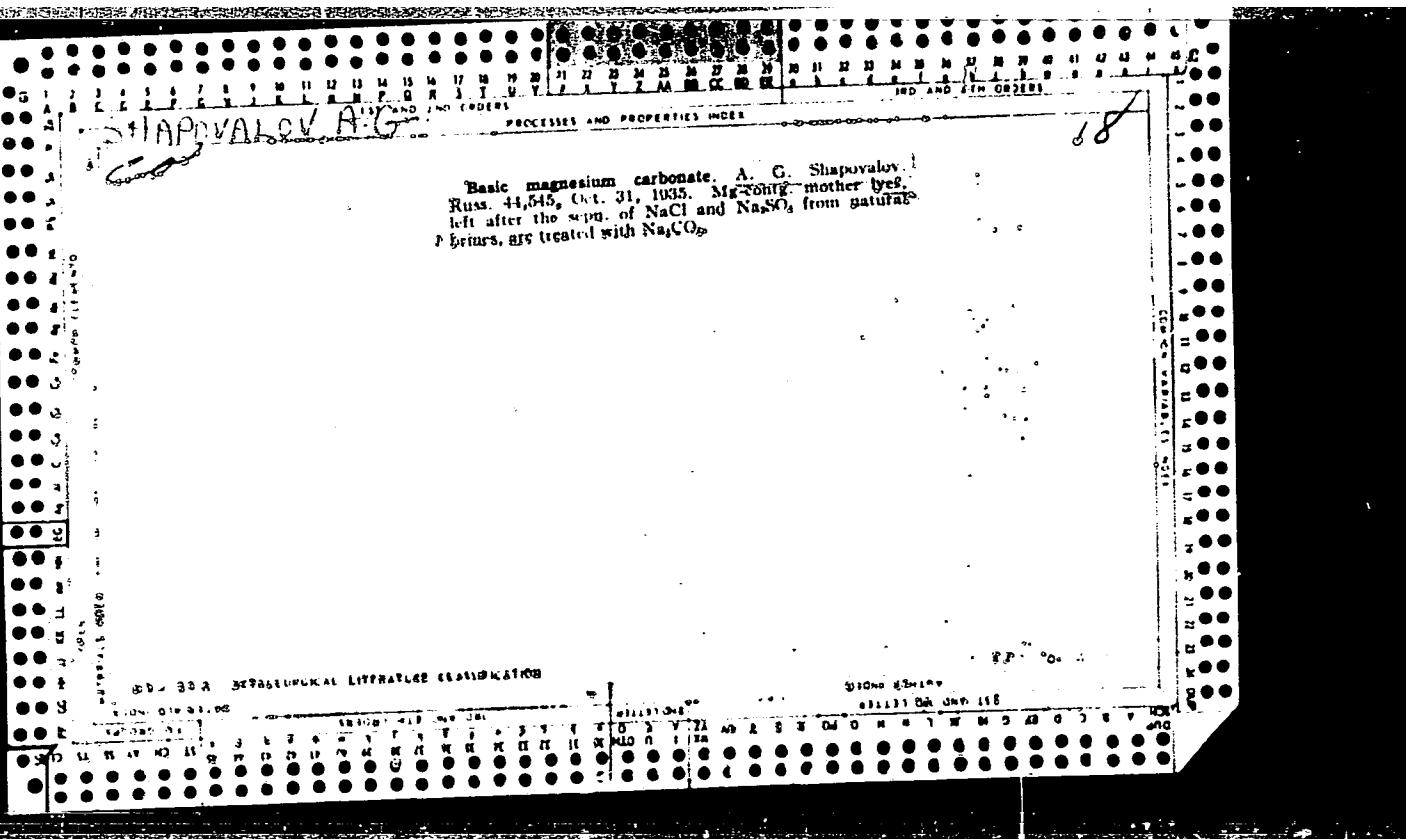
I, Institute of Agriculture of the Central Chernozem Belt,
Station Salovaya, Voronezh District.

(Kamennaya Steppe--Leaf rollers) (Cherry--Diseases and pests)

SHAPOVALOV, A.S., index: N-777581 "M.", b. 1931, Leningrad, Russia; GOMEL', 1959

Work practices: 1. Relyashchii sredstvami (Teplovoe Berlin).
Uspol' 39 no. 2 1959 p. 14
(CIA 17-10)

1. Gidroavtomaticheskii konstruktorskii institut (for Shapovalov), 2.
Dnepretelskiy nauchno-issledovatel'skiy i pol'nyy institut (for Neffen=
burg), 3. Reguliruyushchiy proektirovko-konstruktorskiy i eksperimental'nyy
institut nauchnoe mashinostroyeniya (for Gavrilov).



ADD P - 3274

Subject : USSR/Mining
Card 1/1 Pub. 78 - 4/24
Author : Shapovalov, A. G.
Title : Vital questions in the development of oil and gas wells
Periodical : Neft. khoz., v. 33, #9, 14-19, S 1955
Abstract : The author reverts to the article of N. I. Avloshenko "Improvements in planning and financing of drilled works" published in this journal, #12, 1954. He agrees with many suggestions presented by N. I. Avloshenko on cost estimating and financing of drilling work and offers some of his own.
Institution : None
Submitted : No date

KHGOROSTOV, S.P.; SHAPOVALOV, A.G..

Introduction of industrial methods in constructing rigs and assembling drilling equipment. Azerb.neft.khoz, 35 no,10:9-10 0 '56,
(MLRA 10:1)
(Oil wells--Equipment and supplies)

TARANKOV, V.V.; TAUBE, V.I.; SHAPOVALOV, A.G.

Planning the rate of drilling operations, Neft.khoz.35 no.3:1-6
Mr '57. (MIRA 10:4)
(Oil well drilling)

FOMICHEV, Petr Markovich. Prinimal uchastiye: SHAPOVALOV, Aleksandr
Grigor'yevich; BROYDE, I.M., red.; LATUKHINA, Ye.I., vedushchiy
red.; POLOSINA, A.S., tekhn.red.

[Business accounting within drilling organizations] Vnutri-
khoziaistvennyi raschet v burovyykh organizatsiiakh. Moskva,
Gos.nauchno-tekhn.izd-vq neftianoi i gorno-toplivnoi lit-ry,
1959. 109 p. (MIRA 12:9)
(Oil well drilling--Accounting)

SHAPOVALOV, A.G.

At the Kiev subdivision of the Civil Air Fleet, Zashch. rast.
at vred. i bol. 6 no.10:7 0 '61. (MIRA 16:6)

1. Starshiy inzh. aviatssi spetsial'nogo primeneniya Kyivskogo
podrazdeleniya Grazhdanskogo vozdukhnogo flota.

(Ukraine—Aeronautics in agriculture)

(Ukraine—Spraying and dusting in agriculture)

SHAPOVALOV, Aleksandr Grigor'yevich; FOMICHEN, Petr Markovich; BROYDE,
I.M., red.

[Calculation and the analysis of the cost of drilling gas
and oil wells] Kal'kulirovanie i analiz sebestoimosti
bureniia neftianykh i gazovykh skvazhin. Moskva, Nedra,
1965. 119 p. (MIRA 18:10)

SHAPOVALOV, A.I.

Changes in the summation capacity of the central nervous system in insulin hypoglycemia. A. I. Shapovalov (I. P. Pavlov 1st Med. Inst., Leningrad). Farmakol. i Toksikol.

18, No. 6, 24-6 (1956).—Rabbits were given 0.125 to 3.0 action units of insulin (causing blood sugar decreases of 13-67 mg. % from the initial level of 110-120 mg. %) and tested for response to condenser discharges. At 0.125 unit there was no loss in summation in 5 rabbits (no change, 4; slight gain, 1). At 0.25 unit the tests showed loss (3), no change (1), slight gain (1); at 0.5 unit, loss (4), no change (1); at 1, 2, and 3 units summation was impaired in every test. Glucose, given with the insulin (0.5-2 g./kg. intravenously), prevented the loss in summation. J. F. S.

Chair of Pharmacology

SHAPOVALOV, A. I. Cand Med Sci - (diss) "Effect of pharmacological substances
upon the transmission of stimulation ^{VII} various links of the reflex arch
during hypothermia." Len, 1957. 16 pp (1st Len Med Inst im Academician I. P.
Farlow), 200 copies (KL, 3-58, 100)

-66-

SHAPOVALOV, A.I.

Effect of body temperature on the transmission of excitation in the superior cervical ganglion and on the action of gangliolytic preparations [with summary in English]. Biul.eksp.biol.med. 44 no.8: 71-74 Ag '57. (MIRA '0;11)

1. Iz kafedry farmakologii (nauchnyy rukovoditel' - deystviteľnyy chlen AMN SSSR prof. V.V.Zakusov) 1-go Leningradskogo meditsinskogo instituta imeni I.P.Pavlova. Predstavlena deystviteľnym chlenom AMN SSSR prof. V..Zakusovym.

(AUTONOMIC DRUGS, effects,
ganglion-blocking agents, role of body temperature (Rus))

(BODY TEMPERATURE,

eff. on superior cervical ganglion transm. of excitation
& on eff. of ganglion-blocking agents (Rus))

(GANGLIA, AUTONOMIC,physiology,

superior cervical, transm. of excitation, eff. of body
temperature (Rus))

BACRIFTA E. CIA Sec 9 Vol 13/1 Surgery Jan 59

385. THE INFLUENCE OF HYPOTHERMIA ON THE REFLEX TRANSMISSION AND THE ACTION OF NARCOTICS (Russian text) - Shapovalov A.I. & VESTN. KHIR. 1957, 79/11 (40-48 and 157-158) Graphs 5

This paper deals with an investigation of the problem of a possible depression of sensory perception during hypothermia which in turn might decrease the amount of narcotics required for patients subjected to hypothermia. The experiments were performed on decerebrated cats whose sensory transmission times were measured after stimulation of an afferent nerve. The time of transmission was determined from the time that the stimulus was applied to the nerve to the time of appearance of electrical activity in a studied muscle. Hypothermia was associated with some decrease in the conductivity of the sensory stimuli but the action was not very marked. Thus, cooling to 32 to 31°C. affected the narcotic action of barbiturates and urethan only minimally, while cooling to 25°C. increased the depressing action of the studied narcotics by not more than 1.5 times. It was concluded that hypothermia would not significantly decrease the narcotic requirements of patients.

Surawica - Burlington, Vt. (XVIII,9)

SHAPOVALOV A.I.

Ganglion-blocking activity of barbamil, diplacin, and aminazine
in hypothermia. [with summary in English]. Farm. i toks. 21
no.4:28-31 Jl-Ag '58 (MIEA 11:11)

I. Kafedra farmakologii (nauchnyy rukovoditel' deystvitel'nyy
chlen AMN SSSR prof. V.V. Zakusov) 1-go Leningradskogo meditsinskogo
instituta imeni I.P. Pavlova.

(CHLORPROMAZINE, effects,
ganglion-blocking in exper. hypothermia (Rus))

(AMOBARBITAL, effects
same (Rus))

(MUSCLE RELAXANTS, effects,
diplacyn, ganglion blocking activity in hypothermia
(Rus))

(HYPOTHERMIA,
ganglion-blocking activity of amobarbital,
chlorpromazine & diplacyn in exper. hypothermia (Rus))